

Title (en)  
LENSES WITH ELECTRICALLY-TUNABLE POWER AND ALIGNMENT

Title (de)  
LINSEN MIT ELEKTRISCH ABSTIMMBARER LEISTUNG UND AUSRICHTUNG

Title (fr)  
LENTILLES À ALIGNEMENT ET PUISSANCE ACCORDABLES ÉLECTRIQUEMENT

Publication  
**EP 2901210 A1 20150805 (EN)**

Application  
**EP 13842473 A 20130930**

Priority  
• US 201261707962 P 20120930  
• IB 2013058989 W 20130930

Abstract (en)  
[origin: WO2014049577A1] An optical device (24, 60) includes an electro-optical layer (40, 62), having an effective local index of refraction at any given location within an active area of the electro-optical layer that is determined by a voltage waveform applied across the electro-optical layer at the location. An array of excitation electrodes (46, 68, 72), including parallel conductive stripes extending over the active area is disposed over one or both sides of the electro-optical layer. Control circuitry (48, 70, 74) is coupled to apply respective control voltage waveforms to the excitation electrodes and is configured to concurrently modify the respective control voltage waveforms applied to excitation electrodes so as to generate a specified phase modulation profile in the electro-optical layer.

IPC 8 full level  
**G02F 1/133** (2006.01); **G02F 1/13** (2006.01); **G02F 1/1343** (2006.01); **G02F 1/29** (2006.01); **G09G 3/18** (2006.01)

CPC (source: CN EP US)  
**G02C 7/083** (2013.01 - US); **G02C 7/12** (2013.01 - US); **G02F 1/0121** (2013.01 - CN EP US); **G02F 1/134336** (2013.01 - CN EP US);  
**G02F 1/29** (2013.01 - CN EP US); **G02C 2202/20** (2013.01 - US); **G02F 1/291** (2021.01 - CN EP US); **G02F 2203/28** (2013.01 - CN EP US)

Cited by  
EP3483648A1

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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
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EP 2901210 A1 20150805; EP 2901210 A4 20160427; EP 2901210 B1 20190227; EP 3483648 A1 20190515; EP 3483648 B1 20240515;  
EP 3483648 C0 20240515; ES 2727498 T3 20191016; JP 2015533226 A 20151119; JP 2018120238 A 20180802; JP 2020052409 A 20200402;  
JP 6359016 B2 20180718; JP 6626145 B2 20191225; JP 6948721 B2 20211013; KR 102092264 B1 20200324; KR 20150066546 A 20150616;  
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JP 2018044816 A 20180312; JP 2019214797 A 20191127; KR 20157010815 A 20130930; US 201314428426 A 20130930;  
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